0²⁰ #/2

OIPE

ENTERED

```
 4 <110> APPLICANT: May, Gregory D.
 5            Clendennen, Stephanie K.
 6            Mason, Hugh S.
 7            Lim, Miguel A. Gomez
 8            Arntzen, Charles J.
10 <120> TITLE OF INVENTION: DNA Regulatory Elements Associated with Fruit Development
12 <130> FILE REFERENCE: 031998-007
14 <140> CURRENT APPLICATION NUMBER: US 09/892,635A
15 <141> CURRENT FILING DATE: 2001-06-28
17 <150> PRIOR APPLICATION NUMBER: US 09/160,351
18 <151> PRIOR FILING DATE: 1998-09-25
20 <150> PRIOR APPLICATION NUMBER: US 60/060,062
21 <151> PRIOR FILING DATE: 1997-09-25
23 <160> NUMBER OF SEQ ID NOS: 45
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 1186
29 <212> TYPE: DNA
30 <213> ORGANISM: Musa acuminata
32 <220> FEATURE:
33 <221> NAME/KEY: CDS
34 <222> LOCATION: (55)...(1026)
36 <400> SEQUENCE: 1
37 tttggttgtg cctaacagag agagagagac agaccgatag cctcctcatt cact atg     57
38                                                                 Met
39                                                                  1
41 gcg atc cga tcg cca gct tcg ctg ctg tta ttt gcg ttc ctg atg ctt    105
42 Ala Ile Arg Ser Pro Ala Ser Leu Leu Leu Phe Ala Phe Leu Met Leu
43               5                   10                  15
45 gcc ctc acg gga aga ctg cag gcc cgg cgc agc tca tgc att ggc gtc    153
46 Ala Leu Thr Gly Arg Leu Gln Ala Arg Arg Ser Ser Cys Ile Gly Val
47           20                  25                  30
49 tac tgg gga caa aac acc gac gag gga agc tta gca gat gct tgt gcc    201
50 Tyr Trp Gly Gln Asn Thr Asp Glu Gly Ser Leu Ala Asp Ala Cys Ala
51       35                  40                  45
53 aca ggc aac tac gaa tac gtg aac atc gcc acc ctt ttc aag ttt ggc    249
54 Thr Gly Asn Tyr Glu Tyr Val Asn Ile Ala Thr Leu Phe Lys Phe Gly
55   50                  55                  60                  65
57 atg ggc caa act cca gag atc aac ctc gcc ggc cac tgt gac cct cgg    297
58 Met Gly Gln Thr Pro Glu Ile Asn Leu Ala Gly His Cys Asp Pro Arg
59               70                  75                  80
61 aac aac ggc tgc gcg cgc ttg agc agc gaa atc cag tcc tgc cag gag    345
62 Asn Asn Gly Cys Ala Arg Leu Ser Ser Glu Ile Gln Ser Cys Gln Glu
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/892,635A

DATE: 06/16/2003
TIME: 15:27:32

Input Set : A:\031998-007.ST25.txt
Output Set: N:\CRF4\06162003\I892635A.raw

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63                85                 90                  95
65 cgt ggc gtc aag gtg atg ctc tcc atc gga ggt ggc ggg tct tat ggc   393
66 Arg Gly Val Lys Val Met Leu Ser Ile Gly Gly Gly Gly Ser Tyr Gly
67         100                105                 110
69 ctg agt tcc acc gaa gac gcc aag gac gta gcg tca tac ctc tgg cac   441
70 Leu Ser Ser Thr Glu Asp Ala Lys Asp Val Ala Ser Tyr Leu Trp His
71    115                120                 125
73 agt ttc ttg ggt ggt tct gct gct cgc tac tcg aga ccc ctc ggg gat   489
74 Ser Phe Leu Gly Gly Ser Ala Ala Arg Tyr Ser Arg Pro Leu Gly Asp
75 130                135                 140                  145
77 gcg gtt ctg gat ggc ata gac ttc aac atc gcc gga ggg agc aca gaa   537
78 Ala Val Leu Asp Gly Ile Asp Phe Asn Ile Ala Gly Gly Ser Thr Glu
79            150                155                 160
81 cac tat gat gaa ctt gcc gct ttc ctc aag gcc tac aac gag cag gag   585
82 His Tyr Asp Glu Leu Ala Ala Phe Leu Lys Ala Tyr Asn Glu Gln Glu
83            165                170                 175
85 gcc gga acg aag aaa gtt cac ttg agt gct cgt ccg cag tgt cct ttc   633
86 Ala Gly Thr Lys Lys Val His Leu Ser Ala Arg Pro Gln Cys Pro Phe
87            180                185                 190
89 ccg gat tac tgg ctt ggc aac gca ctc aga aca gat ctc ttc gac ttc   681
90 Pro Asp Tyr Trp Leu Gly Asn Ala Leu Arg Thr Asp Leu Phe Asp Phe
91    195                200                 205
93 gtg tgg gtg cag ttc ttc aac aac cct tcg tgc cat ttc tcc cag aac   729
94 Val Trp Val Gln Phe Phe Asn Asn Pro Ser Cys His Phe Ser Gln Asn
95 210                215                 220                  225
97 gct atc aat ctt gca aat gcg ttc aac aat tgg gtc atg tcc atc cct   777
98 Ala Ile Asn Leu Ala Asn Ala Phe Asn Asn Trp Val Met Ser Ile Pro
99            230                235                 240
101 gcg caa aag ctg ttc ctt ggg ctt cct gct gct cct gag gct gct cca   825
102 Ala Gln Lys Leu Phe Leu Gly Leu Pro Ala Ala Pro Glu Ala Ala Pro
103            245                250                 255
105 act ggt ggc tac att cca ccc cat gat ctc ata tct aaa gtt ctt ccg   873
106 Thr Gly Gly Tyr Ile Pro Pro His Asp Leu Ile Ser Lys Val Leu Pro
107            260                265                 270
109 atc cta aag gat tcc gac aag tac gca gga atc atg ctg tgg act aga   921
110 Ile Leu Lys Asp Ser Asp Lys Tyr Ala Gly Ile Met Leu Trp Thr Arg
111    275                280                 285
113 tac cac gac aga aac tcc ggc tac agt tct caa gtc aag tcc cac gtg   969
114 Tyr His Asp Arg Asn Ser Gly Tyr Ser Ser Gln Val Lys Ser His Val
115 290                295                 300                  305
117 tgt cca gcg cgt cgg ttc tcc aac atc tta tct atg ccg gtg aag tct   1017
118 Cys Pro Ala Arg Arg Phe Ser Asn Ile Leu Ser Met Pro Val Lys Ser
119            310                315                 320
121 tcc aag taa acctgaacgg cgtagatgat cggtggtcga aaactccgat          1066
122 Ser Lys  *
125 catcatgggt ccccatccgt atccgtgcgt tgctacgtta tggtgtttcc cttgtatgtt 1126
126 ggtcttttca ataatataat aaggggttag ttttacgttt ccaaaaaaaa aaaaaaaaaa 1186
129 <210> SEQ ID NO: 2
130 <211> LENGTH: 323
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131 <212> TYPE: PRT
132 <213> ORGANISM: Musa acuminata
134 <400> SEQUENCE: 2
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136  1               5                  10                  15
137 Leu Ala Leu Thr Gly Arg Leu Gln Ala Arg Arg Ser Ser Cys Ile Gly
138            20                  25                  30
139 Val Tyr Trp Gly Gln Asn Thr Asp Glu Gly Ser Leu Ala Asp Ala Cys
140         35                  40                  45
141 Ala Thr Gly Asn Tyr Glu Tyr Val Asn Ile Ala Thr Leu Phe Lys Phe
142     50                  55                  60
143 Gly Met Gly Gln Thr Pro Glu Ile Asn Leu Ala Gly His Cys Asp Pro
144 65                  70                  75                  80
145 Arg Asn Asn Gly Cys Ala Arg Leu Ser Ser Glu Ile Gln Ser Cys Gln
146                 85                  90                  95
147 Glu Arg Gly Val Lys Val Met Leu Ser Ile Gly Gly Gly Gly Ser Tyr
148                100                 105                 110
149 Gly Leu Ser Ser Thr Glu Asp Ala Lys Asp Val Ala Ser Tyr Leu Trp
150             115                 120                 125
151 His Ser Phe Leu Gly Gly Ser Ala Ala Arg Tyr Ser Arg Pro Leu Gly
152         130                 135                 140
153 Asp Ala Val Leu Asp Gly Ile Asp Phe Asn Ile Ala Gly Gly Ser Thr
154 145                 150                 155                 160
155 Glu His Tyr Asp Glu Leu Ala Ala Phe Leu Lys Ala Tyr Asn Glu Gln
156             165                 170                 175
157 Glu Ala Gly Thr Lys Lys Val His Leu Ser Ala Arg Pro Gln Cys Pro
158             180                 185                 190
159 Phe Pro Asp Tyr Trp Leu Gly Asn Ala Leu Arg Thr Asp Leu Phe Asp
160         195                 200                 205
161 Phe Val Trp Val Gln Phe Phe Asn Asn Pro Ser Cys His Phe Ser Gln
162         210                 215                 220
163 Asn Ala Ile Asn Leu Ala Asn Ala Phe Asn Asn Trp Val Met Ser Ile
164 225                 230                 235                 240
165 Pro Ala Gln Lys Leu Phe Leu Gly Leu Pro Ala Ala Pro Glu Ala Ala
166             245                 250                 255
167 Pro Thr Gly Gly Tyr Ile Pro Pro His Asp Leu Ile Ser Lys Val Leu
168             260                 265                 270
169 Pro Ile Leu Lys Asp Ser Asp Lys Tyr Ala Gly Ile Met Leu Trp Thr
170         275                 280                 285
171 Arg Tyr His Asp Arg Asn Ser Gly Tyr Ser Ser Gln Val Lys Ser His
172     290                 295                 300
173 Val Cys Pro Ala Arg Arg Phe Ser Asn Ile Leu Ser Met Pro Val Lys
174 305                 310                 315                 320
175 Ser Ser Lys
179 <210> SEQ ID NO: 3
180 <211> LENGTH: 90
181 <212> TYPE: PRT
182 <213> ORGANISM: Musa acuminata
184 <400> SEQUENCE: 3
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RAW SEQUENCE LISTING   DATE: 06/16/2003
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Input Set : A:\031998-007.ST25.txt
Output Set: N:\CRF4\06162003\I892635A.raw

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185 Met Ala Ile Arg Ser Pro Ala Ser Leu Leu Leu Phe Ala Phe Leu Met
186  1               5                10               15
187 Leu Ala Leu Thr Gly Arg Leu Gln Ala Arg Arg Ser Ser Cys Ile Gly
188              20                25                30
189 Val Tyr Trp Gly Gln Asn Thr Asp Glu Gly Ser Leu Ser Asp Lys Tyr
190          35                40                45
191 Ala Gly Ile Met Leu Trp Thr Arg Tyr His Asp Arg Asn Ser Gly Tyr
192      50                55                60
193 Ser Ser Gln Val Lys Ser His Val Cys Pro Ala Arg Arg Phe Ser Asn
194 65                70                75                80
195 Ile Leu Ser Met Pro Val Lys Ser Ser Lys
196              85                90
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 67
201 <212> TYPE: PRT
202 <213> ORGANISM: Musa acuminata
204 <400> SEQUENCE: 4
205 Met Glu Lys Cys Phe Asn Ile Ile Pro Ser Leu Leu Leu Ile Ser Leu
206  1               5                10               15
207 Leu Ile Lys Ser Ser Asn Ala Ala Gly Ile Ala Val Tyr Trp Gly Gln
208              20                25                30
209 Asn Gly Asn Glu Gly Ser Leu Ser Pro Lys Tyr Gly Gly Val Met Ile
210              35                40                45
211 Trp Asp Arg Phe Asn Asp Ala Gln Ser Gly Tyr Ser Asn Ala Ile Lys
212      50                55                60
213 Gly Ser Val
214 65
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 69
219 <212> TYPE: PRT
220 <213> ORGANISM: Musa acuminata
222 <400> SEQUENCE: 5
223 Met Ala Arg Thr Pro Gln Ser Thr Pro Leu Leu Ile Ser Leu Ser Val
224  1               5                10               15
225 Leu Ala Leu Ile Lys Thr Ser Tyr Ala Gly Gly Ile Ala Ile Tyr Trp
226              20                25                30
227 Gly Gln Asn Gly Asn Glu Gly Thr Leu Ser Pro Lys Tyr Gly Gly Val
228              35                40                45
229 Met Ile Trp Ser Lys Phe Tyr Asp Asp Gln Ser Gly Tyr Ser Asn Ser
230      50                55                60
231 Ile Lys Gly Ser Val
232 65
235 <210> SEQ ID NO: 6
236 <211> LENGTH: 73
237 <212> TYPE: PRT
238 <213> ORGANISM: Musa acuminata
240 <400> SEQUENCE: 6
241 Met Thr Asn Met Thr Leu Arg Lys His Val Ile Tyr Pro Leu Leu Phe
242  1               5                10               15
```

Input Set : A:\031998-007.ST25.txt
Output Set: N:\CRF4\06162003\I892635A.raw

```
243 Ile Ser Cys Ser Leu Ser Lys Pro Ser Asp Ala Ser Arg Gly Gly Ile
244          20              25                  30
245 Ala Ile Tyr Trp Gly Gln Asn Gly Asn Glu Gly Asn Leu Ser Arg Lys
246          35              40                  45
247 Tyr Gly Gly Val Met Ile Trp Ser Lys Phe Trp Asp Asp Lys Asn Gly
248      50              55                  60
249 Tyr Ser Asn Ser Ile Leu Ala Ser Val
250 65                  70
253 <210> SEQ ID NO: 7
254 <211> LENGTH: 64
255 <212> TYPE: PRT
256 <213> ORGANISM: Musa acuminata
258 <400> SEQUENCE: 7
259 Met Ile Lys Tyr Ser Pro Leu Leu Thr Ala Ser Val Ser Phe Leu Lys
260  1           5               10                  15
261 Ala Leu Lys Leu Glu Ala Gly Asp Ile Val Ile Tyr Trp Gly Gln Asn
262          20              25                  30
263 Gly Asn Glu Gly Asn Leu Ser Pro Lys Tyr Gly Gly Val Met Ile Trp
264          35              40                  45
265 Ser Lys Phe Tyr Asp Asn Gly Tyr Ser Asn Ala Ile Leu Ala Asn Val
266      50              55                  60
269 <210> SEQ ID NO: 8
270 <211> LENGTH: 67
271 <212> TYPE: PRT
272 <213> ORGANISM: Musa acuminata        .
274 <400> SEQUENCE: 8
275 Met Ala Ala Lys Ile Val Ser Val Leu Phe Leu Ile Ser Ser Leu Ile
276  1           5               10                  15
277 Phe Ala Ser Phe Glu Ser Ser His Gly Gly Gln Ile Val Ile Tyr Trp
278          20              25                  30
279 Gly Gln Asn Gly Asn Glu Gly Asn Leu Ser Ala Lys Tyr Gly Gly Val
280          35              40                  45
281 Met Ile Trp Ser Lys Ala Tyr Asp Asn Gly Tyr Ser Asn Ala Ile Leu
282      50              55                  60
283 Ala Ser Val
284 65
287 <210> SEQ ID NO: 9          .
288 <211> LENGTH: 496
289 <212> TYPE: DNA
290 <213> ORGANISM: Musa acuminata
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: 163, 387, 471
295 <223> OTHER INFORMATION: n = A,T,C or G
297 <400> SEQUENCE: 9
298 ggcacgagta catcctctgc ttcttcgagc cttttcgcct tccttcctcg tctaaccatg 60
299 tcgacctgcg gcaactgcga ctgcgttgac aagagccagt gcgtgaagaa gggaaacagc 120
```
W--> `300 tacggtatcg atattgttga gaccgagaag agctacgtcg acnaggtgat cgttgccgca 180`
```
301 gaagctgccg agcatgacgg caagtgcaag tgcggcgccg cctgcgcctg caccgactgc 240
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/16/2003
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Input Set : A:\031998-007.ST25.txt
Output Set: N:\CRF4\06162003\I892635A.raw

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 163,387,471
Seq#:22; N Pos. 82,601,628,640,655,692,725,774,793,806,813,854,867,870,876
Seq#:22; N Pos. 882,890,919,946,959,965,995,999,1002,1028,1043,1054,1075
Seq#:22; N Pos. 1093,1515,2166,2216,2265,2345,2533,2870,2917,3077,3337,3356
Seq#:22; N Pos. 3618,3627,3754,3810,3819,3884,3893,4494,4503,4524,4533,4568
Seq#:22; N Pos. 4574,4597,4654,4724,4741,4759,4852,5027,5253,5546,5565,5567
Seq#:22; N Pos. 5575,5578,5618,5619,5650,5669,5672,5677,5683,5694,5704,5708
Seq#:22; N Pos. 5732,5741,5754,5758,5772,5778,5780,5784,5788,5802,5804,5808
Seq#:22; N Pos. 5813,5820,5824,5832,5834,5836,5854,5858,5863,5872,5875,5889
Seq#:22; N Pos. 5915,5922,5950,5990,6006,6011,6344,6401,6416,6596,6600,6608
Seq#:22; N Pos. 6612,6712,6748,6753,6756,6762,6830,6844,6847,6863,6910,6965
Seq#:22; N Pos. 6968,7070,7116,7179,7291,7322,7325,7345,7351,7359,7387,7395
Seq#:23; N Pos. 82,601,628,640,655,692,725,774,793,806,813,854,867,870,876
Seq#:23; N Pos. 882,890,919,946,959,965,995,999,1002,1028,1043,1054,1075
Seq#:23; N Pos. 1093,1515,2166,2216,2265,2345,2533,2870,2917,3077,3337,3356
Seq#:23; N Pos. 3618,3627,3754,3810,3819,3884,3893,4494,4503,4524,4533,4568
Seq#:23; N Pos. 4574,4597,4654,4724,4741,4759,4852,5027,5253,5546,5565,5567
Seq#:23; N Pos. 5575,5578,5618,5619,5650,5669,5672,5677,5683,5694,5704,5708
Seq#:23; N Pos. 5732,5741,5754,5758,5772,5778,5780,5784,5788,5802,5804,5808
Seq#:23; N Pos. 5813,5820,5824,5832,5834,5836,5854,5858,5863,5872,5875,5889
Seq#:23; N Pos. 5915,5922,5950,5990,6006,6011,6344,6401,6416,6596,6600,6608
Seq#:23; N Pos. 6612,6712,6748,6753,6756,6762,6830,6844,6847,6863,6910,6965
Seq#:23; N Pos. 6968,7070,7116,7179,7291,7322,7325,7345,7351,7359,7387,7395
Seq#:24; Xaa Pos. 25,164,173,177,181,193,204,220,227,231,233,247,251,254
Seq#:24; Xaa Pos. 259,269,278,282,284,294,296,305,310,314,320,326,458,656
Seq#:24; Xaa Pos. 673,687,713,774,883,899,952,1038,1043,1163,1180,1183,1202
Seq#:24; Xaa Pos. 1204,1397,1400,1412,1414,1422,1441,1462,1468,1474,1504
Seq#:24; Xaa Pos. 1559,1729,1735,1736,1739,1740,1753,1764,1770,1771,1773
Seq#:24; Xaa Pos. 1775,1778,1782,1783,1791,1794,1800,1806,1807,1808,1810
Seq#:24; Xaa Pos. 1815,1818,1822,1825,1826,1832,1833,1835,1837,1838,1842
Seq#:24; Xaa Pos. 1851,1863,1876,1881,1883,1991,2009,2014,2071,2075,2109
Seq#:24; Xaa Pos. 2120,2121,2122,2124,2147,2151,2152,2157,2169,2187,2188
Seq#:24; Xaa Pos. 2221,2236,2257,2293,2303,2304,2310,2312,2323
Seq#:25; Xaa Pos. 27,160,169,173,190,200,216,222,227,229,243,247,248,250
Seq#:25; Xaa Pos. 252,255,273,278,280,290,291,292,301,306,459,654,669,685
Seq#:25; Xaa Pos. 710,767,878,893,944,1029,1104,1107,1162,1164,1182,1185
Seq#:25; Xaa Pos. 1372,1375,1379,1382,1393,1395,1417,1440,1445,1450,1475
Seq#:25; Xaa Pos. 1533,1666,1672,1673,1676,1690,1706,1707,1714,1719,1727
Seq#:25; Xaa Pos. 1730,1734,1740,1742,1743,1744,1750,1751,1752,1754,1756
Seq#:25; Xaa Pos. 1757,1760,1761,1769,1770,1773,1779,1788,1790,1799,1813
Seq#:25; Xaa Pos. 1818,1820,1930,1949,1954,2011,2012,2015,2016,2058,2060
Seq#:25; Xaa Pos. 2061,2063,2083,2087,2088,2092,2106,2122,2123,2156,2171
Seq#:25; Xaa Pos. 2191,2224,2235,2236,2247,2258
Seq#:26; Xaa Pos. 23,196,205,209,214,226,254,260,264,267,284,285,287,289

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/16/2003
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Input Set : **A:\031998-007.ST25.txt**
Output Set: **N:\CRF4\06162003\I892635A.raw**

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Seq#:26; Xaa Pos. 301,309,313,315,327,328,345,352,358,494,697,713,728,813
Seq#:26; Xaa Pos. 939,991,1076,1081,1165,1167,1208,1226,1229,1250,1253,1442
Seq#:26; Xaa Pos. 1445,1452,1455,1465,1474,1492,1511,1517,1523,1549,1604
Seq#:26; Xaa Pos. 1676,1770,1777,1780,1781,1794,1795,1805,1812,1814,1816
Seq#:26; Xaa Pos. 1820,1823,1832,1835,1840,1841,1846,1847,1849,1850,1855
Seq#:26; Xaa Pos. 1857,1861,1862,1864,1865,1871,1872,1874,1877,1878,1883
Seq#:26; Xaa Pos. 1894,1903,1916,1922,1923,2034,2053,2058,2114,2118,2144
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Input Set : **A:\031998-007.ST25.txt**
Output Set: **N:\CRF4\06162003\I892635A.raw**

```
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
M:341 Repeated in SeqNo=9
L:1050 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:1057 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:1062 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:1064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60
M:341 Repeated in SeqNo=22
L:1210 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
L:1217 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
L:1222 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
L:1224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60
M:341 Repeated in SeqNo=23
L:1370 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:1377 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:1380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:16
M:341 Repeated in SeqNo=24
L:1692 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:1698 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:25
L:1701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16
M:341 Repeated in SeqNo=25
L:2005 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26
L:2012 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:26
L:2015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
M:341 Repeated in SeqNo=26
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:840
M:341 Repeated in SeqNo=27
L:2431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:840
M:341 Repeated in SeqNo=28
L:2658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:1168
M:341 Repeated in SeqNo=29
L:2739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:144
M:341 Repeated in SeqNo=30
L:2952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:160
M:341 Repeated in SeqNo=31
L:3169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:1680
L:3221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:1680
L:3313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:544
L:3420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:528
L:3531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:544
L:3600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1680
M:341 Repeated in SeqNo=37
L:3644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:1680
M:341 Repeated in SeqNo=38
L:3728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:544
M:341 Repeated in SeqNo=39
L:3815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:528
M:341 Repeated in SeqNo=40
L:3936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:840
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VERIFICATION SUMMARY   DATE: 06/16/2003
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Input Set : **A:\031998-007.ST25.txt**
Output Set: **N:\CRF4\06162003\I892635A.raw**

L:3984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:840